

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A method comprising:

requesting an allocation of ~~preferably adjacent~~ cellular frequency channels from a mobile station to a base station;

receiving an allocation of allocating available frequency channels at the mobile station in response to the request from the mobile station;

bonding the available frequency channels ~~to communicate data~~;

bonding a short-range radio channel with the cellular frequency channels; and

communicating ~~the data from~~ directly between the mobile station and the base station over the bonded cellular and short-range radio channels.

Claim 2 (cancel)

Claim 3 (previously presented): The method of claim 1, wherein the short-range radio channel is Bluetooth or WLAN (802.11x).

Claims 4 -10 (cancel)

Claim 11 (currently amended): A mobile terminal, comprising:

a plurality of processing units;

a long-range transceiver coupled to the processing units, the long-range transceiver configured to communicate over cellular frequency channels with a base station;

a short-range transceiver coupled to the processing units configured to communicate over a short-range radio channel with the base station; and

means for bonding a plurality of the cellular frequency channels and the short-range radio channel to communicate data ~~from~~ between the mobile terminal and the base station over the bonded plurality of cellular frequency channels and short-range radio channel.

Claim 12 (currently amended): The mobile terminal of claim 11, wherein the plurality of processing units comprise a reconfigurable processor core on a single substrate that includes ~~one or more~~ a plurality of digital signal processors (DSPs).

Claim 13 (previously presented): The mobile terminal of claim 12, wherein the reconfigurable processor core includes one or more reduced instruction set computer (RISC) processors.

Claim 14 (currently amended): The mobile terminal of claim ~~[[11]]~~ 12, further comprising a router on the single substrate coupled to the plurality of processing units.

Claims 15-20 (cancel)

Claim 21 (previously presented): The method of claim 1, further comprising bonding the short-range radio channel with the cellular frequency channels dynamically based on a current traffic load.

Claim 22 (previously presented): The method of claim 1, further comprising bonding the short-range radio channel with the cellular frequency channels dynamically based on a priority of service.

Claim 23 (previously presented): The method of claim 1, further comprising deallocating the available frequency channels after communicating the data.

Claim 24 (previously presented): The method of claim 1, further comprising communicating the data and voice information simultaneously over the bonded cellular and short-range radio channels.

Claim 25 (currently amended): An apparatus comprising:
a processor;
a first transceiver coupled to the processor to communicate over cellular frequency channels with a base station;
a second transceiver coupled to the processor to communicate over a short-range radio channel with the base station; and

a circuit to bond a plurality of the cellular frequency channels and the short-range radio channel to communicate data ~~from~~ between the apparatus and the base station over the plurality of the cellular frequency channels and the short-range radio channel.

Claim 26 (currently amended): The apparatus of claim 25, wherein the processor comprises ~~[[a]]~~ an integrated circuit having a reconfigurable processor core that includes one or more a plurality of digital signal processors (DSPs).

Claim 27 (previously presented): The apparatus of claim 26, wherein the reconfigurable processor core includes one or more reduced instruction set computer (RISC) processors.

Claim 28 (currently amended): The apparatus of claim 26, ~~further comprising~~ wherein the integrated circuit further comprises a router coupled to the reconfigurable processor core.

Claim 29 (currently amended): The apparatus of claim 28, wherein the router is configured to bond the plurality of the cellular frequency channels and the short-range wireless channels.

Claim 30 (new): The method of claim 24, wherein the data comprises video information.

Claim 31 (new): The method of claim 24, wherein the data comprises multimedia information.

Claim 32 (new): The method of claim 1, further comprising receiving from a user of the mobile station a request to increase a bandwidth of a connection between the mobile station and the base station.

Claim 33 (new): The method of claim 32, further comprising determining in the mobile station a number of the cellular frequency channels to request based on the requested bandwidth.

Claim 34 (new): The method of claim 1, wherein requesting the allocation comprises requesting an allocation of preferably adjacent cellular frequency channels.